



Using Graphs to Design Your Own Investigation

How to Get a Random Sample from CensusAtSchool

Go to the CensusAtSchool [Random Sampler](#) to download a sample.X

Reference year: *(select year)*

Sample size: *At least 40 students*

Select questions: *All*

Location: *Select location*

Year level: *(select a range of year levels)*

To protect privacy there is a rule built into the sampler that the requested sample size cannot exceed 10% entered.

Task:

Use a CensusAtSchool random sample to conduct your own investigation and analysis.

1. Pose a Question: (This is what you want to find an answer to)

2. Variables: If you are looking at categorical data, you may only have one variable.

When you are looking at numerical data you can use one or two variables. If you're looking for a relationship you need to identify your variables as independent and dependent.

Independent (Explanatory):

Dependent

(Response):

3. Results: Use the first thirty values from your random sample to graph your data. Think about the most appropriate way to display your data. (Use the grid to create your graph)

4. Discussion:

- What sort of graph did you choose to display your data?
- Why did you choose this type of graph?
- Identify and describe any features or patterns in your graph.

5. Conclusion: Write a short summary paragraph describing your main findings from your graph.



ABS Education Services

Name: _____

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Date: _____
